

## Week 10: Capstone Project Part 3.1

### Objective

**Learn practical prompt engineering by experimenting with different prompt structures and comparing results using Bing Image Creator (DALL-E 3).**

### Task 1: Basic vs. Detailed Prompts

Prompts Used:

1. Basic: mountain landscape



2. Detailed: snow-capped mountain peaks at sunrise, golden light, wispy clouds, telephoto lens, crisp detail, 4k



Bing Image Creator

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3. 2. Basic: a wizard



4. Detailed: elderly wizard in flowing dark blue robes, intricate silver embroidery, holding a wooden staff, soft studio lighting, portrait photography style



## Observations

- The detailed prompts produced significantly more visually rich and nuanced images.
- Lighting in detailed prompts was more dynamic and realistic (e.g., golden light at sunrise).
- Backgrounds in detailed prompts had more depth, texture, and elements.
- Specific elements like 'silver embroidery' and 'telephoto lens detail' were clearly visualized.

## Task 2: Working Around Trigger Words

Prompts Used:

5. 1. Problematic: robot dancing in a nightclub



Bing Image Creator



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6. Solution - humanoid figure in fluid motion, dark environment with colourful spotlights, dynamic pose, metallic surface reflections



Bing Image Creator



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7. 2. Problematic: magical forest with fairies



Bing Image Creator



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8. Solution - misty woodland at dawn, small points of bioluminescent light between trees, ethereal atmosphere, soft bokeh effect





## Observations

- The solution prompts were successful in bypassing content restrictions while achieving similar themes.
- Words like 'humanoid figure' and 'bioluminescent lights' worked as effective replacements for restricted terms like 'robot' and 'fairies'.
- Visuals retained the intended mood and style without direct references to trigger words.

## Task 3: Negative Prompt Practice

Prompts Used:

9. 1. abandoned city street
10. 2. abandoned city street, no people
11. 3. abandoned city street --no people, no graffiti, no trash, no animals





Bing Image Creator



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## Observations

- Each level of negative prompting removed more unwanted elements.
- The final prompt successfully removed humans, trash, graffiti, and animals, creating a clean abandoned look.
- Sometimes even minor elements like birds or debris persisted, suggesting negative prompts are not 100% guaranteed.

## Optional Extension: Futuristic Library in Ancient Tree

Prompt: A futuristic library in an ancient tree, glowing orbs, vines wrapped around high-tech screens, natural bark textures, magical ambiance



Bing Image Creator



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Result: The prompt successfully blended natural and futuristic elements. A glowing atmosphere with visible vines and futuristic shelves is evident. Some variations struggled with structural realism but the best images were visually compelling.

## **Key Learnings**

- Detailed prompts create richer, more accurate visuals.
- Trigger words can often be worked around using descriptive, indirect alternatives.
- Negative prompting is powerful but may still need multiple generations for full control.
- Prompt engineering is an iterative and creative process.